# TABLE OF CONTENTS

*Volume 87*

ARTICLES


BEN B. BALSLEY, MICHAEL L. JENSEN and ROD G. FREHLICH / The Use of State-of-the-Art Kites for Profiling the Lower Atmosphere 1–25

T.P. SCHOPFLOCHER and P.J. SULLIVAN / Spatial Resolution in the Measurement of Concentration Fluctuations 27–40

MICHAEL FRECH / Mesoscale Moisture Variability and its Impact on Energy Transfer Through the Boundary Layer 41–68

I.J. SIMPSON, G.W. THURTELL, H.H. NEUMANN, G. DEN HARTOG and G.C. EDWARDS / The Validity of Similarity Theory in the Roughness Sublayer Above Forests 69–99

J.P. NIEVEEN, A.E. GREEN AND W. KOHSIEK / Using a Large-Aperture Scintillometer to Measure Absorption and Refractive Index Fluctuations 101–116

C.J.P.P. SMEETS, P.G. DUYNKERKE and H.F. VUGTS / Turbulence Characteristics of the Stable Boundary Layer over a Mid-Latitude Glacier. Part I: A Combination of Katabatic and Large-Scale Forcing 117–145

O. BRASSEUR, H. GALLÉE, G. SCHAYES, C. TRICOT and K. DE RIDDER / Impact of Turbulence Closures on Diurnal Temperature Evolution for Clear Sky Situations over Belgium 163–193

DAVID A. R. KRISTOVICH and ROSCOE R. BRAHAM, JR / Mean Profiles of Moisture Fluxes in Snow-Filled Boundary Layers 195–215

MARIA TOMBROU and DIMITRA FOUNDA / Wind Profile Diagnosis from Surface Routine Meteorological Data over a Coastal Area 217–231

ANNA M. SEMPREVIVA and JØRGEN HØJSTRUP / Transport of Temperature and Humidity Variance and Covariance in the Marine Surface Layer 233–253

R. OHBA, Y. SHAO and A. KOUCHI / A Wind Tunnel and Numerical Investigation of Turbulent Dispersion in Coastal Atmospheric Boundary Layers 255–273

EDWARD G. PATTON, ROGER H. SHAW, MURRAY J. JUDD and MICHAEL R. RAUPACH / Large-Eddy Simulation of Windbreak Flow 275–306

KLARA FINKELE / Inland and Offshore Propagation Speeds of a Sea Breeze from Simulations and Measurements 307–329

D. FREESE and CH. KOTTMEIER / Radiation Exchange Between Stratus Clouds and Polar Marine Surfaces 331–356

BRADFORD W. BERGER and BRANKO GRISOGONO / The Baroclinic, Variable Eddy Viscosity Ekman Layer 363–380

F.E. HEWER / Non-Linear Numerical Model Predictions of Flow over an Isolated Hill of Moderate Slope 381–408

EUGENE YEE, P.R. KOSTENIUK and J.F. BOWERS / A Study of Concentration Fluctuations in Instantaneous Clouds Dispersing in the Atmospheric Surface Layer for Relative Turbulent Diffusion: Basic Descriptive Statistics 409–457

WOLFGANG SCHLEZ and DAVID INFIELD / Horizontal, Two Point Coherence for Separations Greaer than the Measurement Height 459–480

JINMEI SHEN / Numerical Modelling of the Effects of Vegetation and Environmental Conditions on the Lake Breeze 481–498

XIAOHU LIU, OSAMU TSUKAMOTO, TAKEHISA OIKAWA and EIJI OHTAKI / A Study of Correlations of Scalar Quantities in the Atmospheric Surface Layer 499–508

G.K. SEN, M. CHATTERJEE and D.K. SINHA / Dynamical Initialization of Boundary-Layer Data 509–514

LIANHONG GU / Comments on "A Practical Method for Relating Scalar Concentrations to Source Distributions in Vegetation Canopies" by M.R. Raupach 515–524

M.R. RAUPACH / Response to Gu (1998), "Comments on 'A Practical Lagrangian Method for Relating Scalar Concentrations and Source Distributions in Plant Canopies' by M. R. Raupach (1989: *Quart. J. Roy. Meteorol. Soc.* **115**, 609–632)" 525–528

RESEARCH NOTES

EMMANUEL GUILLOTEAU / Optimized Computation of Transfer Coefficients in Surface Layer with Different Momentum and Heat Roughness Lengths 147–160

BOOK REVIEWS

Günter Baumbach / *Air Quality Control* (GEORGE DJOLOV) 357–358

Volume Contents 529–530
Authors Index 531
Subject Index 533
The 'KLUWER' LaTeX Style File 161, 359, 535